Spectra

Installation Guide

6 Open Case, Locate CPU

A. Before you open your system, "ground" yourself (discharge any static electricity) by touching an unpainted metal object, such as the system chassis. Static electricity can damage electronic components even below the level that humans can feel the "shock".
B. Disconnect power, unplug cables and remove the system cover.
C. Locate the CPU (refer to your motherboard manual). The CPU is usually covered with a fan or heatsink. If any cables, wires or components need to be removed or disconnected, carefully note how and where they are connected. Always keep the parts you remove together.

7 Remove Original CPU

A. If the CPU heatsink/cooling fan is attached to the socket, remove it by pressing down on the heatsink/cooling fan retaining clip and unfastening it from the tabs. (NOTE: PAY ATTENTION TO HOW THE CLIP IS ATTACHED BECAUSE THE SPECTRA UPGRADE WILL BE ATTACHED SIMILARLY). You will not need to use the original retaining clip for the upgrade. If your CPU has a fan attached, do not cut any fan wires and contact Technical Support for removal instructions.
B. Next, carefully move the lever slightly away from the socket and lift the lever until vertical. (Fig.7-1) If no lever exists, refer to your system or motherboard manual, or contact technical support.
C. Lift the original CPU straight up out of the socket. (Fig. 7-2) After successful installation of the Spectra, keep the original CPU in safe place should you need to reinstall it.

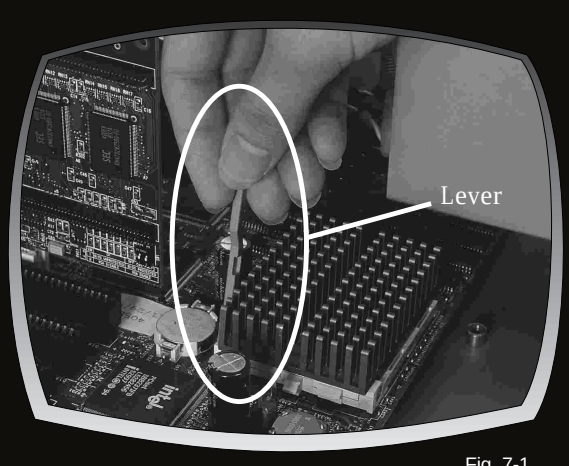
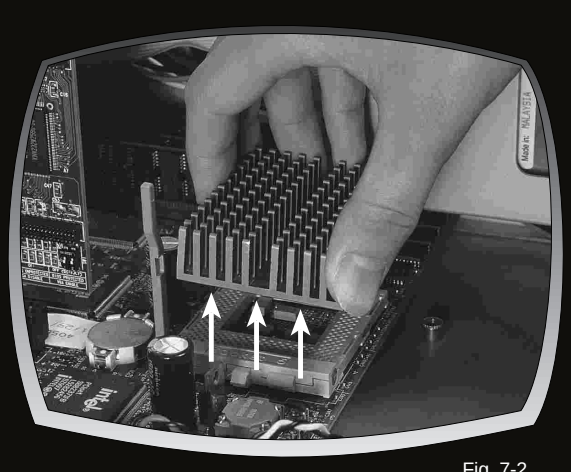


Fig. 7-1


Fig. 7-2

8 Set System Bus if Necessary

Prior to changing any jumper settings on the motherboard, record the current jumper settings, should you need to reinstall the original CPU.

Set your system bus speed to 66 MHz. Many systems do not use a specific label for changing the bus speed. For these systems, change the CPU speed to 100, 133, 166 or 200 MHz. Your systems jumper settings can be found in your system manual, motherboard manual, inside the case, on the power supply or on the motherboard itself. (Fig. 8-1 & 8-2)

NOTE: JUMPER SETTINGS FOR YOUR SYSTEM MAY DIFFER FROM THE ONE SHOWN IN FIGURE.

The upgrade requires VRE voltage specification (3.52 volts), sometimes specified as 3.45 – 3.6 volts. Some motherboards do not allow you to configure the voltage but instead incorporate voltage settings into the CPU type setting.

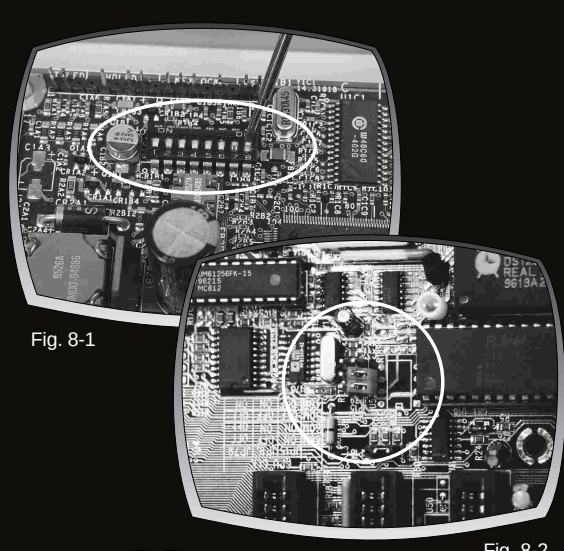

Fig. 8-1

Fig. 8-2

9 Identify Pin 1 & Install Spectra Upgrade

The Spectra upgrade module arrives in two parts; fan with heatsink and CPU module. In this step, you will install the CPU module.

A. Raise the CPU socket lever until vertical.
B. Align pin 1 (the 3 pin corner) on the upgrade and socket, then insert the upgrade. (Fig. 9-1) Make sure the bottom of the upgrade touches the top of the socket. Hold the upgrade down in the socket while lowering the lever into its horizontal locked position. (Fig. 9-2 & 9-3)

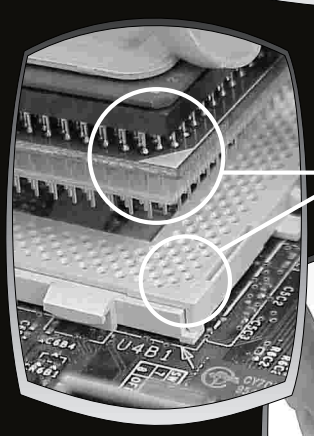


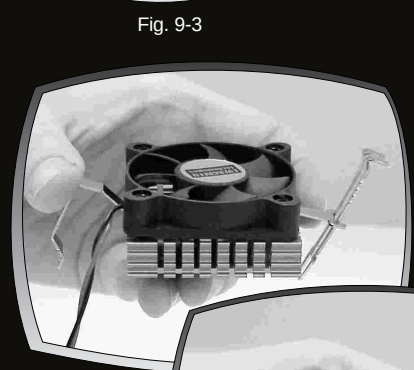
Fig. 9-1

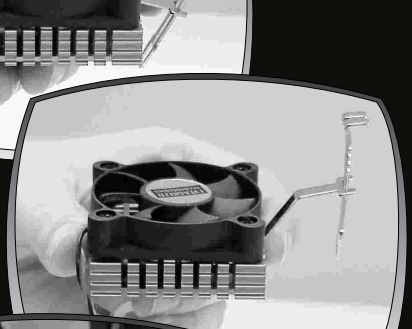

Fig. 9-2

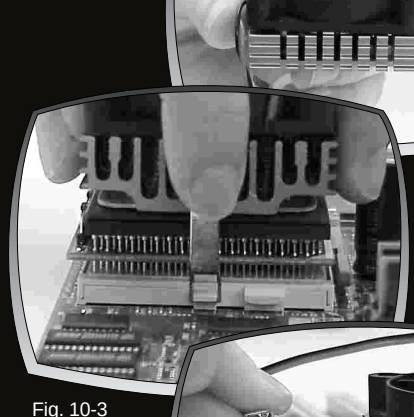

Fig. 9-3

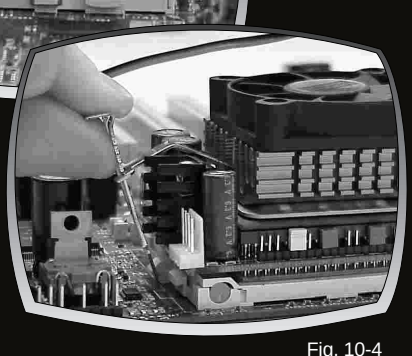
10 Install Fan and Retaining Clip

A. When you open the box containing the heatsink/cooling fan, the clip used to hold the fan on the motherboard CPU socket may need to be pushed into the proper position. Holding the fan in one hand, use your other hand to push the metal retaining clip on the side without the quick release as shown in Fig. 10-1. When this step is completed, the fan and retaining clip should be in the same position as shown in Fig. 10-2.
B. Identify the correct orientation of the fan-retaining clip. The clip will only fit one way. The side with the quick release must go over the power assembly (the highest part) of the CPU Module. (Fig. 10-3) Set the heatsink/cooling fan assembly on top of the CPU module already installed in the socket.
C. Fasten the clip to the tab on the motherboard socket on the opposite side of the upgrade power assembly first. Push the metal clip from the top corner, so the hole at the bottom of the clip fastens onto the plastic tab on the motherboard CPU socket. Attach the quick release side of the clip to the motherboard CPU socket in the same manner. Push down on the metal tab of the clip until it fastens to the plastic tab on the CPU socket (Fig. 10-4)
D. Verify that the bottom of the heatsink/cooling fan assembly is flush with the top of the Spectra 333 CPU. Make sure that the fan is secured by adjusting the height of the retaining clip, if necessary. The clip has notches below the metal quick release tab for height adjustment.


Fig. 10-1


Fig. 10-2


Fig. 10-3


Fig. 10-4

11 Connect Power Cables

A. Reconnect any cables you disconnected in step 6.
B. Plug the small, white connector into the CPU upgrade module. (Fig. 11-1)
C. Next, you will need to plug the fan into the computer's power supply. If you have a power cable that is not being used, plug the **four-pin/male** connector into the power supply. (Fig. 11-2) The female end will not be used.
D. If all power cables are being used, find another powered device in your system such as the hard drive or CD-ROM and disconnect the power cable from the back of the drive. Next, plug the **four-hole/female** end of the fan connector into the power supply. Plug the **four-pin/male** end of the fan connector into the power supply. (Fig. 11-2)

12 Test Installation, Reassemble System

Insert the INSTALL diskette into drive A and restart the computer. INSTALL will display your **Before** and **After** performance. (Fig. 12-1)

Dhrystones: _____

Mediastones: _____

Remove the INSTALL disk and restart your computer to verify operation. The Spectra installation is complete.

Reassemble your computer and complete the owner registration process by following the "Owner Registration Instructions" card.

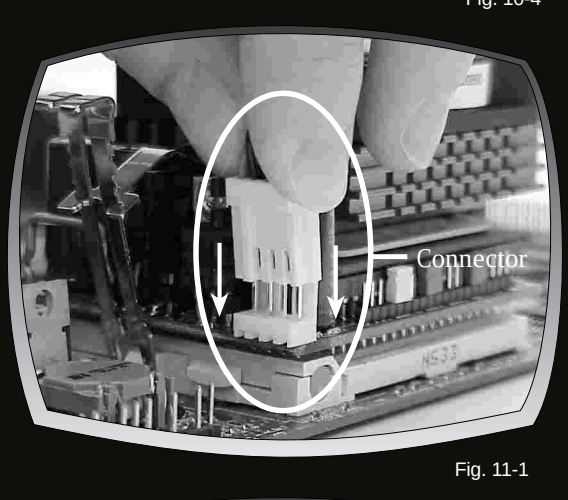


Fig. 11-1

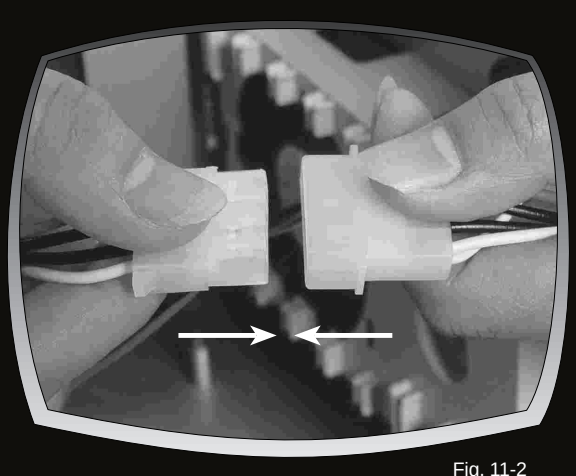

Fig. 11-2



Fig. 12-1

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